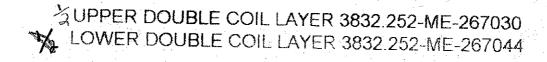
Alpha Magnetics, S.C.) <u>,</u>
Revision	
Date	

ALPHA: MAGNETICS, INC.

KTeV ANALYSIS MAGNET TRAVELER FOR THE DOUBLE COIL LAYER



Prepared by Don Klein/Dennis Klein

	Alphie Megiteus, C.C.
	Revision
	Date 4-26-94
Check annli	cable drawing below, insure that the drawing is legible.
Oricon applic	able drawing below, insure that the drawing to legible.
X	Upper Double Coil Layer 3832.252-ME-267030
	Lower Double Coil Layer 3832.252-ME-267044
Double coil l	ayer made from single inlet layer No
	•
and single of	utlet laver No.

Alpha M	lagnetics,	S.O	
Revision_			
Date			

1.0 General Notes

- 1.1 White (lint free) gloves or surgical latex gloves shall be worn by all personnel when handling all product parts after the parts have been prepared/cleaned.
- 1.2 All steps that require a sign-off shall include the Technician/Inspector's first initial and full last name.

 All entries in the Traveler are to be in black ink.
- 1.3 No erasures or white-out will be permitted to any documentation. All incorrectly entered data shall be corrected by placing a single line through the error, initial and date the error before adding the correct data.
- 1.4 Any and all data; signatures or written notes shall be eligible by others.
- 1.5 Half lap 40% to 50% coverage (overlap)
- 1.6 If damage or a deviation from the specifications are found, a Discrepancy Report Form must be completed and attached behind the page in which the discrepancy occurred before production can proceed. All Discrepancy Reports issued shall be recorded in the left margin next to the applicable step.
- 1.7 If coil is not being worked on it shall be protected from the elements and dust by wrapping it in an ant-static sheeting (such as Herculite).
- 1.8 Attach to the appropriate traveler any requests for a variance from previously accepted procedures and the Fermilab approval.
- 1.9 Attach to the traveler a copy of that portion of the coil fabrication and testing plan which is relevant to the work covered by the traveler.

KTeV Analysis Magnet Traveler for Double Coil Layer

Alpha Magnetics, S.O
Revision
Date

2.0 Layer Assembly

- 2.1 Select proper inlet and outlet single layers. Nest single layers together and mark leads to be cut to proper length.
- 2.2 Cut layer pigtails to proper length and machine end in accordance with drawing 3832.252-MB-267033A.
- 2.3 Make certain all chips are removed from I.D. of conductor.
- 2.4 Deburr and degrease pigtail ends.
- 2.5 Record results of machining conterbore depth:

Inner layer , 735
Outer layer , 735
Bevel Angle 45° Degrees

- 2.6 Fit two layers together with ferrule in place. Measure between pigtail ends and record gap_____.

 Prior to fitting two layers together, place .033" Scotchply cloth between layers per drawing 3832.252-MC-267034.
- 2.7 Weld butt joint per applicable drawing, and approved welding procedure.

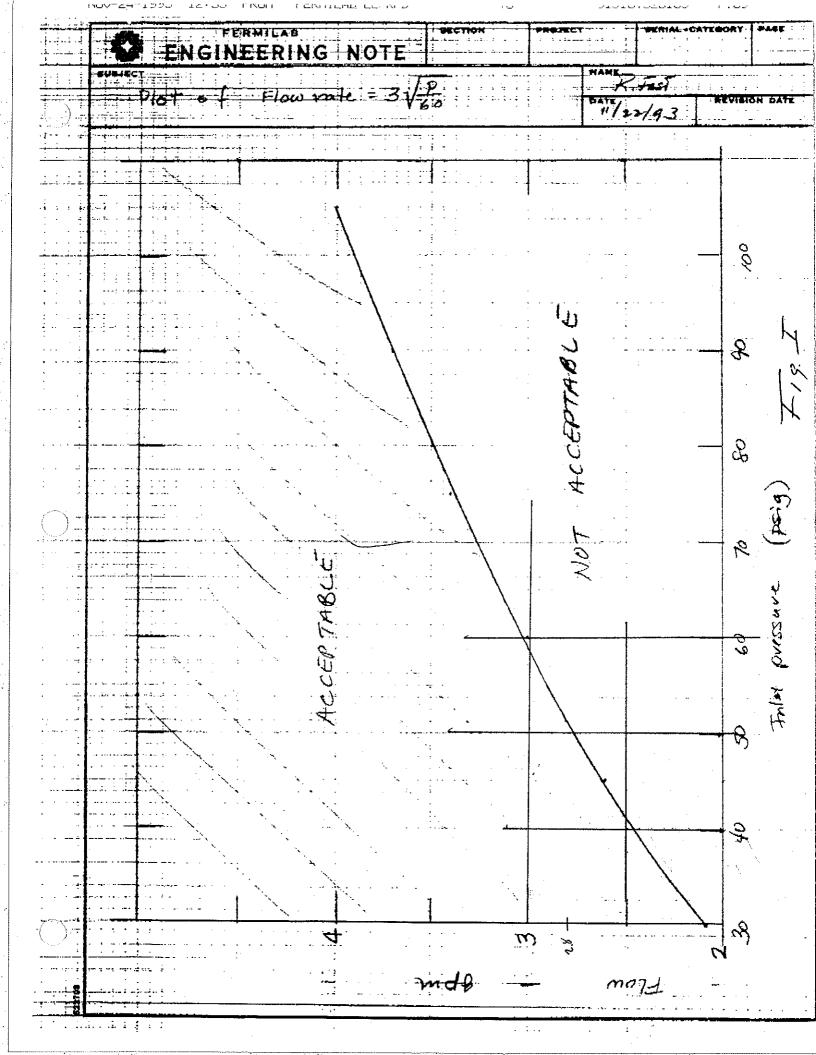
	Revision	
dela I access Tarakina	Date	
ble Layer Testing		
Water Test - Flow Rate		
Flush double layer with clean deminutes. Apply minimum of 30 ferred).		
Record: Pressure		
· · · · · · · · · · · · · · · · · · ·	PM -	
	egrees F	
	.g.	
NOTE: See attached chart flow rate.	(Fig. I) for acceptable	
Water Test - Hydrostatic		
Fill circuit with water and pressurize to 375 + 25/-0 PSIG. Isolate from pressure. No drop in pressure shall occur within a 30 minute period.		
Record:		
ANA 67000 465000	SIG	
Results Mals Add	310	
1.000mo		
Nous 11 for	4-15-94	
Test Technician	Date	
.//	1	
Denve Ulla	4-15-94	
QC/QA Inspector	Date	

3.0

3.1

3.2

Alpha Magnetics, S.O.



	i i	Alpha Magnetics, S.ORevision
		Date
3.3	Dye Penetrant Test	
	Attach results.	nall be filed out and rewelded.
·	Tested By Organization_ Test Date	<u> 11 1/02 </u>
3.4	·	e layer before double layer
,	Volts/Div.	
7		
<u> </u>	annal Or	5-15-94
I est	Technician	Date
1	onaro Illan	5 15 4
QA	QC Inspector	Date

		Revision	
		Date	
Dou	uble Layer Post Electrical Test		
4.1	D.C. Resistance Test Bridge S/N or Model 165 Resistance 0065 Coil Temp Relative Humidity	Doggood E	
4.2	D.C. Hipot Test (200 Volts D.C. Voltage 200 D.C. Leakage Current 200 D.C. Temperature 70 Relative Humidity 40	0.C.	
4.3	Ring Test (80 Volts D.C.)	D.C.	
Tes	t Technician Dannel Gran	Date	1-94
,	QA Inspector	Date Santa	<u> 94</u>
W(V)	AND ILIANGULUI	Date	

	Revision		
<u>Dou</u>	ble Layer Production Complete	Date	
5.1	QA/QC Inspector verify that sections 1 through 4 are accurate and complete and that all Discrepancy Reports have had disposition made.		
	Comments:		
<u>_</u>	QA/QC Inspector	6-1-9 / Date	
5.2	Production Supervisor verify that section 1 through 4 are accurate and complete.		
	Comments:		
	Donnella	6-1-94	
	Production Manager	Date	
5.3	Fermilab representative verify are accurate and complete.	that section 1 through 4	
	Fermilab Representative	Date	

5.0

Alpha Magnetics, S.O.____